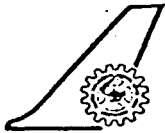


# Documentation sheet



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**Title** Unsteady Pressure Measurements On 1:40 Scale GSLV Heat Shield Model

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**Keywords** GSLV, Heat Shield, Pressure Fluctuations, Unsteady Pressures

**Abstract**

Wind tunnel measurements were carried out on a 1:40 scale model of GSLV configuration to measure unsteady pressures in the heat shield region of the model in the 1.2m tunnel at NAL. This document gives a brief description of the experiments highlighting several techniques adopted to obtain accurate unsteady pressure data. Typical results on steady and unsteady pressure distribution are briefly discussed. Pressure fluctuation levels are highest near the reattachment point. Spectra are generally of broadband type without any dominant peak and nearly 80 to 90% of the energy of pressure fluctuation was contained within 0-5KHz of frequency range.